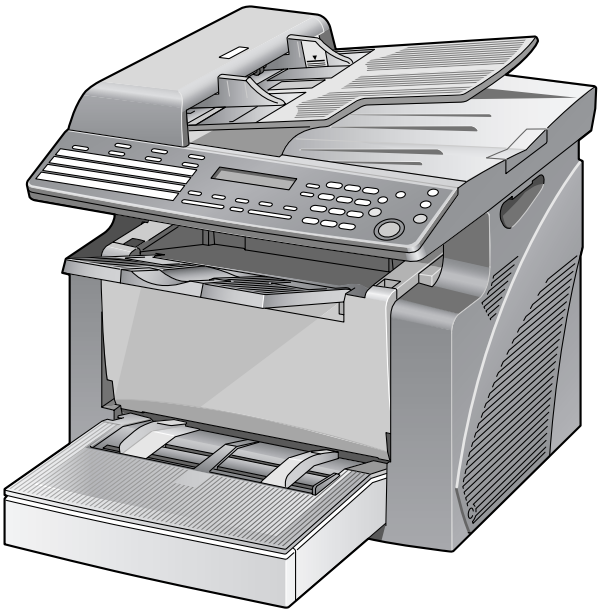
KONICA MINOLTA

The essentials of imaging

KONICA MINOLTA FAX2900/FAX3900

User's Guide GDI Printer Controller



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1 Introduction

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1.2 Getting Ready

System Requirements

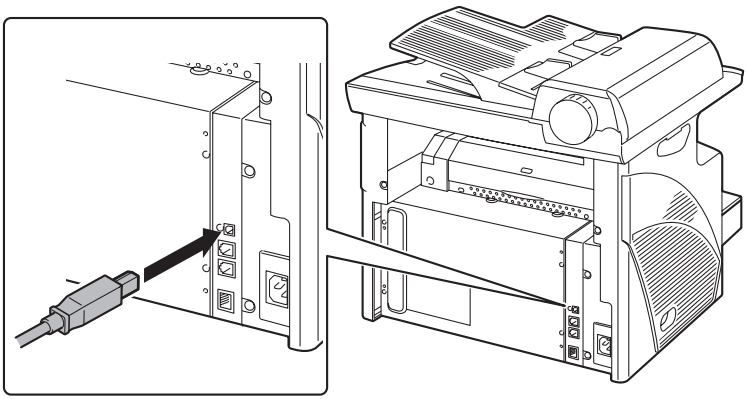
The following operating environment is required in order to use the printer driver.

- PIII, 600 MHz or faster
- Windows XP (SP1 or later), Windows 2000 (SP3 or later), Windows 98
- 128 MB RAM (Windows XP), 64 MB RAM (Windows 2000/98)
- USB port (Version 1.1)
- Network (only with FAX3900)
- CD-ROM drive

2 Connecting to a Computer

2.1 USB Port Connection

Use a Type B USB cable to connect the machine's USB port to the USB port on your computer.



2.2 Connecting the Network Cable

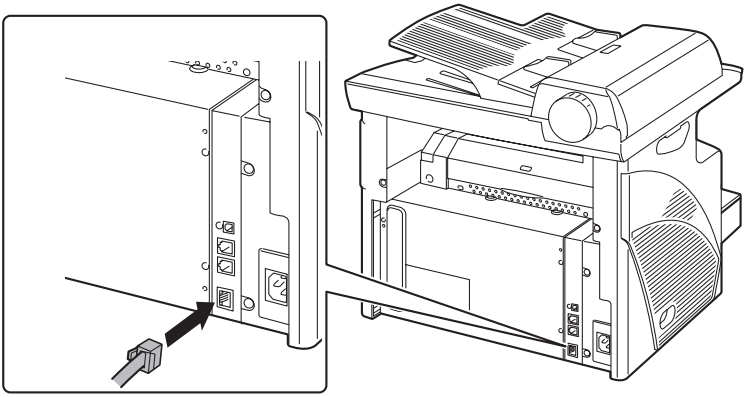
Insert the connectors on the network cable into the network ports.

Note

This connection is available only with FAX3900.
Be sure to use a shielded Category 5 or 5E network cable. Use of an unshielded cable may result in radio frequency interference.

1 Insert the connector on one end of the network cable into the network port as shown in the illustration.

2 Insert the connector on the other end of the network cable into an available port on the network hub.



About the LEDs

LED1 (LINK):	This LED lights up when the network cable is connected correctly. If this LED is not lit, check the connection again, even if the copier appears to be connected correctly. If this LED is not lit when both ends are connected correctly, the network cable may be damaged.
LED2 (ACT):	This LED blinks when data is being transferred.

3 Installing the Printer Driver

This section describes the procedure for installing the printer driver. The printer driver can be installed in two ways: by using Plug and Play or by using the Add Printer Wizard.

If you want to use this function to install the printer driver:	Follow this procedure:
Plug and Play (for USB connection)	*"Installing the Printer Driver Using Plug and Play" on page 3-1*
Add Printer Wizard (for parallel connection)	*"Installing the Printer Driver Using the Add Printer Wizard" on page 3-5*

3.1 Installing the Printer Driver Using Plug and Play

Installation using Plug and Play is not possible on Windows 95 and NT 4.0. Refer to the procedure for using the Add Printer Wizard.

For a parallel connection, quit the Add Printer Wizard that started up with Plug and Play, and then install the printer driver by clicking the Add Printer icon.

Installing the Printer Driver Using Plug and Play Under Windows XP

1 With Windows running, insert the CD-ROM into your computer's CD-ROM drive.

2 Turn on the machine.

3 When the machine is ready, connect it to the computer with the USB cable.

The "Found New Hardware Wizard" dialog box appears.

4 Select **Install from a list or specific location [Advanced]**, and then click [Next].

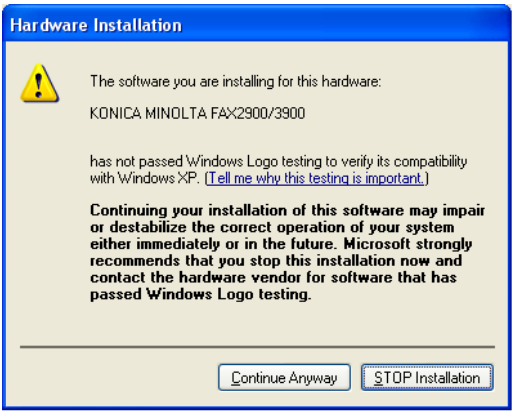
5 Select **Include this location in the search:** under **Search for the best driver in these locations.**, and then click [Browse].

6 Browse to “Driver\(language)\WinXP” on the CD-ROM, and then click [OK].

Tip
Select the language you prefer. For example, if you prefer English, browse to:
Driver\English\WinXP

7 Click [Next].

- The following dialog appears, click [Continue Anyway].


Hardware Installation
The software you are installing for this hardware:
KONICA MINOLTA FAX2900/3900
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

8 The “Completing Found New Hardware Wizard” dialog box appears.

- Click [Finish].

9 The “Found New Hardware Wizard” dialog box appears again.

- Repeat steps 4 through 7.

Note
This completes the installation of the printer driver.

Installing the Printer Driver Using Plug and Play Under Windows 2000

1 With Windows running, insert the CD-ROM into your computer's CD-ROM drive.

2 Turn on the machine.

3 When the machine is ready, connect it to the computer with the USB cable.

The "Found New Hardware Wizard" dialog box appears.

4 Select **Search for a suitable driver for my device (recommended)** in the "Install Hardware Device Drivers" dialog box, and then click [Next].

The "Locate Driver Files" dialog box appears.

5 Select **Specify a location**, and click [Next].

6 Click [Browse...] on the next dialog box, browse to "Driver\(language)\Win2K" on the CD-ROM, and then click [OK].

Tip
Select the language you prefer. For example, if you prefer English, browse to:
Driver\English\Win2K

7 Click [OK], and follow the instructions that appear on the screen until the "Completing the Found New Hardware Wizard" dialog box appears.

- Click [Finish].

8 The "Found New Hardware Wizard" dialog box appears again.

- Repeat steps 4 through 7.

Note
This completes the installation of the printer driver.

Installing the Printer Driver Using Plug and Play Under Windows Me/ 98

1 With Windows running, insert the CD-ROM into your computer's CD-ROM drive.

2 Turn on the machine.

3 When the machine is ready, connect it to the computer with the USB cable.

The "Add New Hardware Wizard" dialog box appears.

4 Click [Next], and then select **Search for the best driver for your device (Recommended)** on the next dialog box.

- Click [Next] again.

5 Select [Specify a location], and then click [Browse…].

6 Browse to "Driver\(language)\Win9X" on the CD-ROM, and then click [OK].

Tip
Select the language you prefer. For example, if you prefer English, browse to:
Driver\English\Win9X

7 Click [Next], and then follow the instructions that appear on the screen until you can click [Finish].

8 The "Add New Hardware Wizard" dialog box appears again.

- Repeat steps 4 through 7.

Note
Repeat steps 4 through 7 until the installation is completely finished. This completes the installation of the printer driver.

3.2 Installing the Printer Driver Using the Add Printer Wizard

Installing the Printer Driver Using the Add Printer Wizard Under Windows XP

1 With Windows running, insert the CD-ROM into the CD-ROM drive of your computer.

2 Click the Windows [Start] button, and then click [Printers and Faxes].

3 Select [Add a printer] from the [Printer Tasks] menu.

The Add Printer Wizard starts.

4 Click the [Next] button.

5 Select “Local printer” (Do not check the “Automatically detect and install my Plug and Play printer” box.), and then click [Next] button.

Note

- For details on specifying network settings, refer to Chap.6 “Network Printing in a Windows Environment (Available only with FAX3900). Since other network settings must first be specified, temporarily install the printer driver under a local connection.
- For the network printer settings, consult with the network administrator.

6 Specify the port (LPT1, 2 ect) where the printer controller is connected, and then click [Next] button.

7 Click the [Have Disk] button.

8 Click the [Browse] button.

9 Specify the printer driver directory on the CD-ROM for the environment being used, and then click the [OK] button.

Note
When instructed to specify the driver, browse to "Driver\English\WinXP" on the CD-ROM.

10 Click the [Next] button.

11 Follow the instructions that appear on your computer screen to complete the installation.

12 After installation is complete, check that the icon for the installed printer appears in the "Printers" window.

13 Eject the CD-ROM from your computer's CD-ROM drive.

This completes the installation of the printer driver.

Installing the Printer Driver Using the Add Printer Wizard Under Windows 2000

1 With Windows running, insert the CD-ROM into the CD-ROM drive of your computer.

2 Click the Windows [Start] button, point to [Settings], and then click [Printers].

3 Double-click the “Add Printer” icon.

4 Click the [Next] button.

5 Select “Local printer”. (*Do not check the “Automatically detect and install my Plug and Play printer” box.*), and then click [Next] button.

Note

- For details on specifying network settings, refer to Chap.6 “Network Printing in a Windows Environment (Available only with FAX3900). Since other network settings must first be specified, temporarily install the printer driver under a local connection.
- For the network printer settings, consult with the network administrator.

6 Specify the port (LPT1, 2, etc.) where the printer controller is connected, and then click [Next] button.

7 Click the [Have Disk] button.

8 Click the [Browse] button.

9 Specify the printer driver directory on the CD-ROM for the environment being used, and then click the [OK] button.

Note

When instructed to specify the driver, browse to “Driver\English\Win2K” on the CD-ROM.

10 Click the [Next] button.

11 Follow the instructions that appear on your computer screen to complete the installation.

12 After installation is completed, check that the icon for the installed printer appears in the “Printers” window.

13 Eject the CD-ROM from your computer’s CD-ROM drive.

This completes the installation of the printer driver.

Installing the Printer Driver Using the Add Printer Wizard Under Windows Me/98

1 With Windows running, insert the CD-ROM into the CD-ROM drive of your computer.

2 Click the Windows [Start] button, point to [Settings], and then click [Printers].

3 Double-click the “Add Printer” icon.

4 Click the [Next] button.

5 Select “Local printer”, and then click [Next] button.

Note

- For details on specifying network settings, refer to Chap.6 “Network Printing in a Windows Environment (Available only with FAX3900). Since other network settings must first be specified, temporarily install the printer driver under a local connection.
- For the network printer settings, consult with the network administrator.

6 Click the [Have Disk] button.

7 Click the [Browse] button.

8 Specify the printer driver directory on the CD-ROM for the environment being used, and then click the [OK] button.

Note

When instructed to specify the driver, browse to “Driver\English\Win9X” on the CD-ROM.

9 Click the [Next] button.

10 Click [Next] button.

11 Specify the port (LPT1, 2, etc.) where the printer controller is connected, and then click [Next] button.

12 Follow the instructions that appear on your computer screen to

complete the installation.

13 After installation is completed, check that the icon for the installed printer appears in the “Printers” window.

14 Eject the CD-ROM from your computer’s CD-ROM drive.

This completes the installation of the printer driver.

4 Configuring Printer Driver Settings

The printer driver “Properties” dialog box appears when you display the printer driver properties from the Windows “Printers” window. The settings you make in the “Properties” dialog box are applied globally to all applications.

Note

Screen images shown in this manual may differ slightly from the actual ones and are subject to change without notice.

4.1 Displaying Printer Driver Properties for Configuring Global Settings

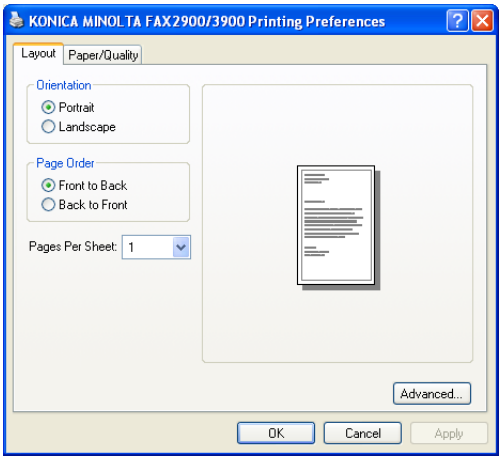
Displaying Settings Under Windows XP

1 Click the Windows [Start] button, and then click [Printers and Faxes].

2 In the “Printers and Faxes” window, select the “KONICA MINOLTA FAX2900/3900” icon.

3 To display the printer driver settings, select [Printing Preferences...] from the [File] menu.

The following printer setup dialog box appears.



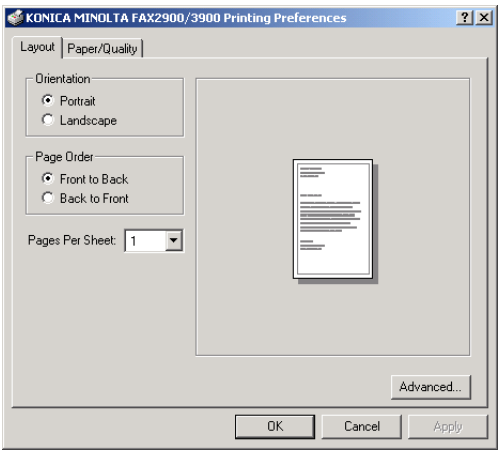
Displaying Settings Under Windows 2000

1 Click the Windows [Start] button, point to [Settings], and then click [Printers].

2 Select the “KONICA MINOLTA FAX2900/3900” icon.

3 To display the printer driver settings, select [Printing Preferences...] from the [File] menu.

The following printer setup dialog box appears.



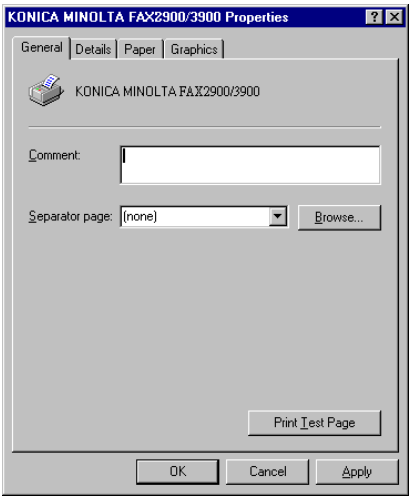
Displaying Settings Under Windows Me/98

1 Click the Windows [Start] button, point to [Settings], and then click [Printers].

2 Select the “KONICA MINOLTA FAX2900/3900” icon.

3 To display the printer driver settings, select [Properties] from the [File] menu.

The following printer setup dialog box appears.



4.2 Common Operations

This section describes settings and buttons that are common to all tabs.

Tip
The tabs referred to this section differ according to the computer's operating system.

4.2.1 Common Button

OK

Click this button to exit the "Properties" dialog box and apply all settings you changed.

Cancel

Click this button to exit the "Properties" dialog box without applying any changes.

Apply

Click this button to apply all settings you changed without exiting the "Properties" dialog box.

4.2.2 Orientation

Use this setting to specify whether your document should be printed in portrait (vertical) or landscape (horizontal) format.

To specify the orientation:

- Windows XP/2000: Select the [Layout] tab, and then select "Portrait" (vertical) or "Landscape" (horizontal) under orientation.
- Windows Me/98: Select the [Paper] tab, and then select "Portrait" (vertical) or "Landscape" (horizontal) under orientation.

4.2.3 Paper Source

The Paper Source item sepcifies the tray from which paper is fed in the machine. The following paper sources can be selected: Auto, Tray1, Tray2 (optional), and Bypass Tray.

To specify the paper source:

- Windows XP/2000: Select the [Paper/Quality] tab, and then select the desired tray from the "Paper Source" list.
- Windows Me/98: Select the [Paper] tab, and then select the desired tray from the "Paper Source" list.

4.2.4 Media Type

You can specify the type of media to be used for printing.

To specify the media type:

- Windows XP/2000: Select the [Paper/Quality] tab, and then select the desired media type from the “Media” list.
- Windows Me/98: Select the [Paper] tab, select the “Media” as the “Document” option, and then select the desired media type from the “Media” list.

Note

The following media types can be selected: Plain paper, Thick paper, OHP, and Envelope.

If “Auto” is selected under “Paper Source”, the tray containing the paper of the specified size is automatically selected.

If “Tray1” or “Bypass” is selected under “Paper Source”, the paper type (plain paper, thick paper, OHP, envelope) can be specified.

If the optional “Tray2” is selected, only the “Plain” paper type is available.

4.2.5 Paper Size

You can specify the size of paper you want to use for printing.

To specify the output paper size:

- Windows XP/2000: Click [Advanced] on the [Layout] tab, and then select a paper size from the “Paper Size” list.
- Windows Me/98: Select the [Paper] tab, and then select a paper size.

4.2.6 Copy

Use this setting to specify the number of copies to be printed.

To specify the number of copies:

- Windows XP/2000: Click [Advanced] on the [Layout] tab, and then type or select a value in the Copy Count box.
- Windows Me/98: Select the [Paper] tab, and then type or select a value in the “Copies” box.

4.2.7 Resolution

This function sets the print quality to suit the type of copy you are printing.

To specify the resolution:

- Windows XP/2000: Click [Advanced] on the [Layout] tab, and then

select a resolution of either “600 x 600 dpi” or “300 x 300 dpi” from the “Print Quality” list.

- Windows Me/98: Select the [Graphics] tab, and then select either “600 x 600 dpi” or “300 x 300 dpi” from the “Resolution” list.

Note

“600 x 600 dpi” provides better quality, but it also takes longer to print at this setting than at “300 x 300 dpi”.

5 Control Panel Operations (PC Print Mode)

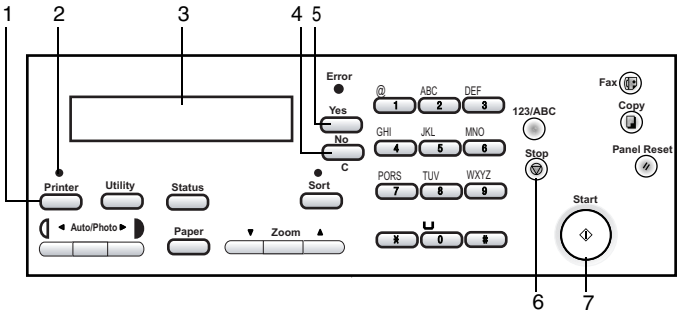
This section covers printer operations you can perform on the control panel of the machine.

5.1 Printer Operations

If it is not being used in another mode, the machine will automatically switch to the PC print mode when data is received from a computer. You can also manually switch to the PC print mode from another mode by pressing the [Printer] key.

See *"Entering and Exiting the PC Print Mode" on page 5-3* for more information.

General Guide



Number	Name	Description
1	[Printer] key	• Press while the machine is receiving print data (indicated by the [Printer] indicator blinking) to enter the PC print mode. • Press while the machine is in the PC print mode to exit the PC print mode.
2	[Printer] indicator	• Blinks while the machine is receiving print data. • Lights while there is PC print data in the machine memory and while the machine is performing a print operation. • Goes off when there is no print data. • See *"[Printer] Indicator" on page 5-3*.
3	Display	• "[PC PRN]" or "PC:PRN" indicates print data is in machine memory. • "*PC PRINT*" indicates the PC print mode. • The display also shows the paper source and paper size for the print job.
4	[No] key	• Press to reply "No" to the confirmation message that appears when a print job is canceled.
5	[Yes] key	• Press to reply "Yes" to the confirmation message that appears when a print job is canceled.
6	[Stop] key	• Press while the machine is in the PC print mode to cancel the current print job. See *"Canceling a Print Job" on page 5-5*.
7	[Start] indicator	• Lights in orange when the machine is in the PC print mode.

[Printer] Indicator

The [Printer] indicator shows the current PC printing.

[Printer] Indicator	Description
Blinking	• The machine is receiving print data, even while in another mode. • A printer error has occurred (indicated by "PRN Err" on the display).
On	• When in another mode, indicates that the machine memory contains PC print data. • In the PC print mode, indicates that the machine is printing PC print data. The indicator remains lit (without blinking) even if data is being received while printing is in progress.
Off	• No print data in the machine memory.

Entering and Exiting the PC Print Mode

When it is not being used in another mode, the machine will automatically switch to the PC print mode when data is received from a computer. You can also manually switch to the PC print mode from another mode by pressing the [Printer] key.

The following are the rules that govern switching to or from the PC print mode.

- If the machine is in the copy mode when a print command is executed on a connected computer, it will switch to PC print if no operation is performed in the copy mode for 30 seconds. This machine will not receive print data unless 30 seconds pass after it has completed its last copy operation.
- If PC print data is received while a fax operation is being performed, the machine will switch to the PC print mode and print the data after the end of the fax mode job is reached.
- If a high-priority PC print job is received while a low-priority fax operation is being performed, the machine will interrupt the fax operation and enter the PC print mode to print the job. The fax operation will resume after the PC print job is complete.

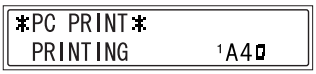
- When there is print data in the machine memory (indicated by "[PC PRN]" or "PC:PRN" on the display and a lit "Printer" indicator), pressing the [Printer] key enters the PC print mode. The machine will beep, and the PC print mode will not be entered if there is no print data in the machine memory when the [Printer] key is pressed.

- Pressing the [Fax] or [Copy] key exits the PC print mode.
- After printing is finished, the machine automatically switches to the mode it was in before the print operation started.

Canceling a Print Job

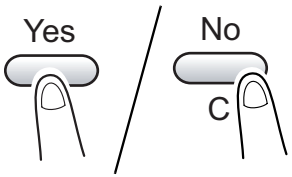
You can cancel a print job from the control panel of the machine. You can cancel a print job from the control panel only while the machine is in PC print mode.

1 Make sure that machine's display shows "*PC PRINT* PRINTING".



2 Hold down the [Stop] key for five seconds, until the "PC JOB CANCEL?" confirmation message appears on the display.

3 Press the [Yes] key to cancel the print job or the [No] key to resume printing.



...

Note

You can use steps 2 and 3 of the above procedure to cancel a print job while any of the following errors is displayed: PAPER EMPTY, INCORRECT PAPER SIZE, NO SUITABLE PAPER, PAPER SIZE ERROR, LOAD PAPER, PAPER JAM, COVER OPEN, TONER EMPTY, MEDIA TYPE ERROR.

A print job cannot be canceled while print data is being received by the machine.

Using the Bypass Tray

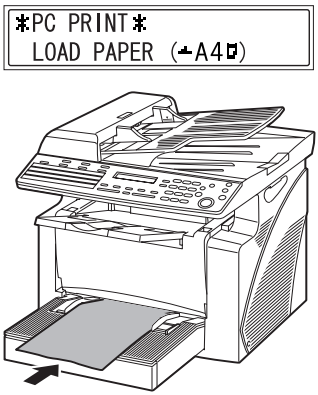
Use the procedure described below to print onto paper that is fed automatically (up to 10 sheets at a time) from the bypass tray.

1 On your computer, display the printer driver, and then specify "Bypass" as the **Paper Source** setting (page 4-4).

2 Execute the print operation from your computer.

3 When the message "LOAD PAPER" appears on the machine's display, load paper onto the bypass tray.

- This causes the print operation to be performed using the paper from the bypass tray.



4 Repeat step 3 as many times as necessary until printing of the document is complete.

...

Note

Be sure to execute the print operation from the computer first, and then place the paper onto the bypass tray. If there is already paper on the bypass tray when you execute the print operation, remove the paper, and then place it again onto the bypass tray.

The bypass tray can be loaded with a maximum of 1 envelope, 5 OHP transparencies, or 10 sheets of plain paper or cards.

5.2 Printing the Configuration Page

Detailed information on the settings can be printed so that they can be easily checked.

1 Press the [Status] key on the control panel of the copier.

2 Use the ▲ and ▼ keys to select “PRINTER REPORT?”.

3 Press the [Yes] key.

A list of the types of reports that can be printed appears.

4 Use the ▲ and ▼ keys to select “CONFIGURATION PAGE?”.

5 Press the [Yes] key.

The contents of the settings are printed.

6 Network Printing in a Windows Environment (Available only with FAX3900)

This chapter provides detailed information on setting up and using a copier as a network printer. However, not all information provided will be required by all users.

Note

The Network Printing functions is available only with FAX3900.

Screen images shown in this manual may differ slightly from the actual ones.

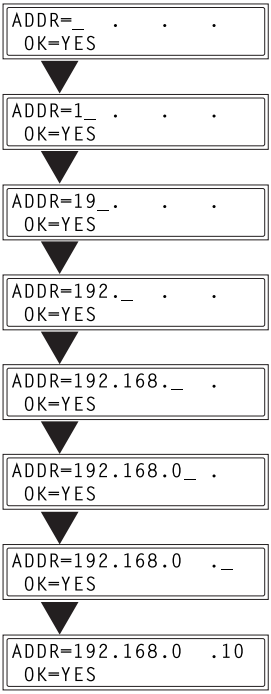
6.1 Assigning an IP Address

From the control panel of the copier, assign an IP address to the copier.

Note
Always assign an IP address only after consulting your network administrator.

Entering the IP Address From the Control Panel

Use the 10-key pad on the control panel to enter the IP address.
Example: To enter “192.168.0.10”



Note
If a section of the number is less than three digits, press the ▶ key to move the cursor to the beginning of the next section.

Assigning an IP Address

The IP address can be assigned using a function on the “NETWORK SETTING” menu. Other functions on the “NETWORK SETTING” menu can be used to specify the subnet mask and default gateway settings.

1 Press the [Utility] key.

The first Utility mode screen appears.

2 Use the ▲ and ▼ keys to select “NETWORK SETTING?”.

3 Press the [1] key from the 10-key pad to select “IP ADDRESS”.

4 Use the ◀ and ▶ keys to select “SPECIFY”, and then press the [Yes] key.

...

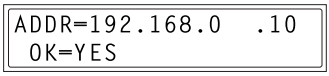
Note

If “SPECIFY” is selected in this step, “AUTO” can also be selected. If “AUTO” is selected, the IP address, subnet mask, and default gateway setting are automatically assigned by the DHCP server on the network. This means that they do not have to be assigned manually, as is the case when “SPECIFY” is selected. However, please note the following points when using “AUTO” to assign the IP address.

Check with your network administrator to determine if there is a DHCP server available on the network. (If there is, a special IP address will be assigned by the AutoIP function. However, the copier will not be able to communicate with other devices on the network that have had ordinary IP addresses assigned to them.) Always select "SPECIFY" when there is no DHCP server available.

When "AUTO" is selected to assign the IP address, the IP address may sometimes be changed automatically. If the IP address and other settings are changed, you may not be able to print to a specified printer on the network due to a communication failure caused by a change in the address. When "AUTO" is selected, we recommend that you set the DHCP server to assign a fixed address to the copier.

5 Use the 10-key pad and the ◀ and ▶ keys to enter the IP address.



...

Note

If an IP address is already entered, it can be overwritten by a new one.

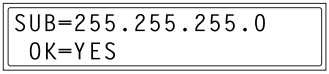
The IP address shown in the illustration is only an example. Always check with your network administrator before entering an IP address for the printer.

6 Press the [Yes] key to confirm the setting. "The NETWORK SETTING" menu appears again.

- Proceed to enter the subnet mask setting.

7 While the "NETWORK SETTING" menu is displayed, press the [2] key in the 10-key pad to select "SUBNET MASK".

8 Use the 10-key pad and the ◀ and ▶ keys to enter the subnet mask address.



...

Note

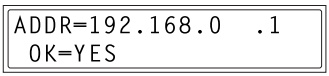
The subnet mask address shown in the illustration is only an example. Always check with your network administrator before entering a subnet mask address.

9 Press the [Yes] key to confirm the setting. “The NETWORK SETTING” menu appears again.

- Proceed to enter the default gateway setting.

10 While the “NETWORK SETTING” menu is displayed, press the [3] key on the 10-key pad to select “GATEWAY”.

11 Use the 10-key pad and the ◀ and ▶ keys to enter the default gateway address.



...

Note

The default gateway address shown in the illustration is only an example. Always check with your network administrator before entering a default gateway address.

12 Press the [Yes] key to confirm the setting.

- The “NETWORK SETTING” menu appears again. Finally, the specified IP address, network mask, and default gateway settings are registered on the copier itself. In order to register these settings, the copier must be restarted by turning it off, then on again.

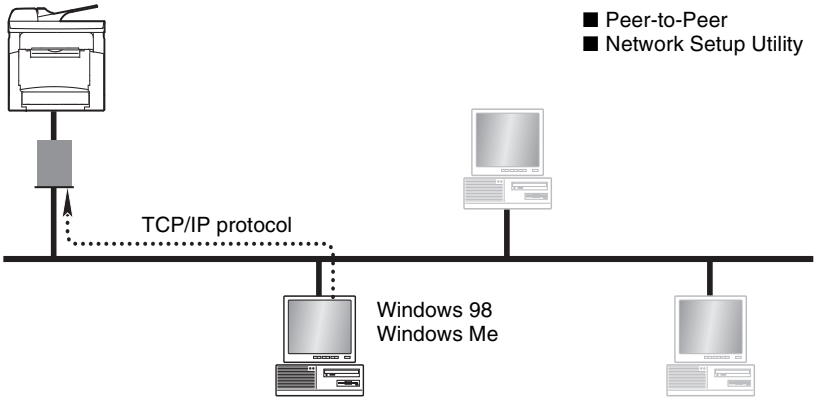
13 While the “NETWORK SETTING” menu is displayed, press the [No] key or the [Panel Reset] key to select “PLEASE RE-START POWER SUPPLY OFF/ON”.

Set the power switch on the copier to “◯”, then “|” to restart the copier.

6.2 Selecting the Network Print Method

Once a network card has been installed, various methods for network printing become available. This section describes how to select the appropriate network print method for the type of operating system that you are using.

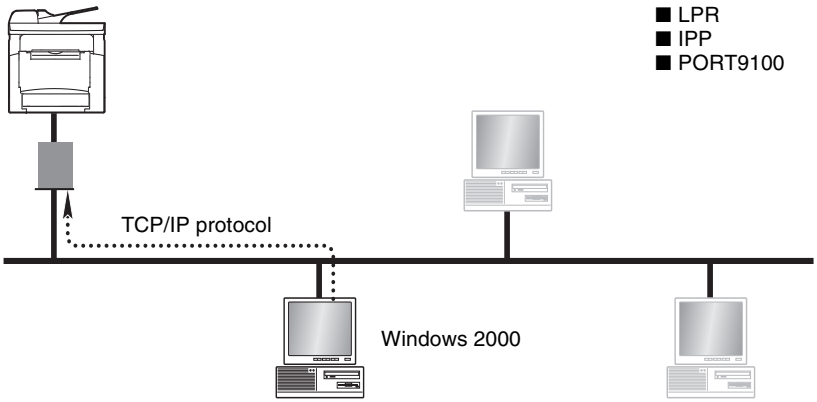
For Windows 98/ Windows Me



Peer-to-Peer Printing

- Using the Peer-to-Peer utility, you can connect a copier and computer to the same network.
- The Peer-to-Peer utility is automatically installed when you install the printer driver.
- The TCP/IP protocol is used.

For Windows 2000



LPR Printing

- You can connect a copier and computer via the LPR print service.
- The LPR print service is available with a standard installation of the operating system.
- The TCP/IP protocol is used.

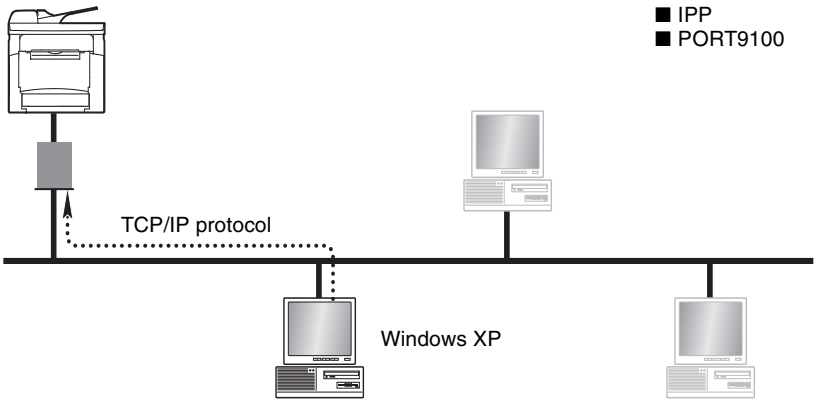
IPP Printing

- You can connect a copier and computer via the IPP print service.
- The IPP print service is available with a standard installation of the operating system.
- HTTP (Hyper Text Transfer Protocol), which is part of the TCP/IP protocol, is used. Businesses and organizations may have a firewall set up to prevent unauthorized access. However, it should normally be possible to traverse an HTTP firewall. This allows you to print to network printers beyond the firewall via an IPP connection.

Printing to Port 9100

- You can connect a copier and computer via the Port 9100 print service.
- The Port 9100 print service is available with a standard installation of the operating system.
- The TCP/IP protocol is used.

For Windows XP



IPP Printing

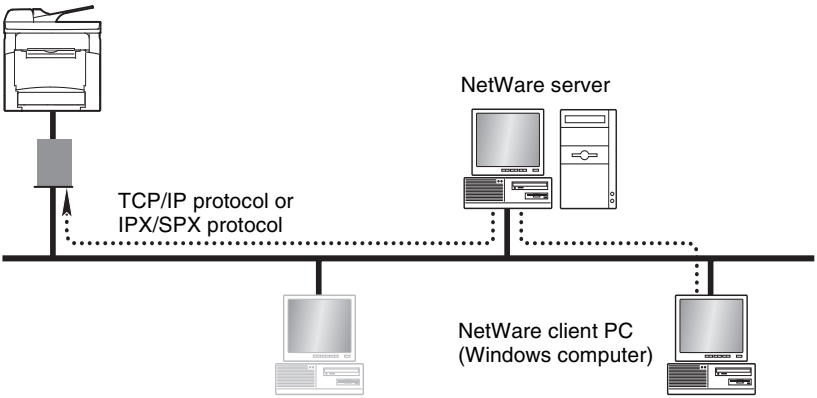
- You can connect a copier and computer via the IPP print service.
- The IPP print service is available with a standard installation of the operating system.
- HTTP (Hyper Text Transfer Protocol), which is part of the TCP/IP protocol, is used. Businesses and organizations may have a firewall set up to prevent unauthorized access. However, it should normally be possible to traverse an HTTP firewall. This allows you to print to network printers beyond the firewall via an IPP connection.

Printing to Port 9100

- You can connect a copier and computer via the Port 9100 print service.
- The Port 9100 print service is available with a standard installation of the operating system.
- The TCP/IP protocol is used.

For NetWare (NetWare Server/ Windows Client)

When using NetWare, you can use a computer running Windows as a NetWare client to print to a copier via a NetWare server.



Supported Environments

The controller supports the system environments described below.

NetWare Version	Protocol	Emulation	Service Mode
NetWare 4.x	IPX	NDS/Bindery	PServer/NPrinter
NetWare 5.x/6	IPX	NDS/Bindery	PServer/NPrinter
	TCP/IP		NDPS (lpr)

6.3 Checking the Setup Procedures

This section describes the required procedures for setting up network printing for the selected network print method.

Peer-to-Peer Printing

1. Connect the network cable. (“Connecting the Network Cable” on page 2-2)
2. Specify the IP address, subnet mask, and default gateway settings for the copier. (“Assigning an IP Address” on page 6-2)
3. Print the configuration page and check the settings. (“Printing the Configuration Page” on page 5-7)
4. Install the printer driver. The Peer-to-Peer utility is installed when you install the printer driver.
   - For details on installing the printer driver, refer to *“Installing the Printer Driver” on page 3-1*.
5. Add a network port to the computer. (“Setting Up the Network Connections” on page 6-12)

LPR/PORT 9100 Printing

1. Connect the network cable. (“Connecting the Network Cable” on page 2-2)
2. Specify the IP address, subnet mask, and default gateway settings for the copier. (“Assigning an IP Address” on page 6-2)
3. Print the configuration page and check the settings. (“Printing the Configuration Page” on page 5-7)
4. Install the printer driver.
   - For details on installing the printer driver, refer to *“Installing the Printer Driver” on page 3-1*.
5. Add a network port to the computer. (“Setting Up the Network Connections” on page 6-12)

IPP Printing

1 Connect the network cable. (“Connecting the Network Cable” on page 2-2)

2 Specify the IP address, subnet mask, and default gateway settings for the copier. (“Assigning an IP Address” on page 6-2)

3 Print the configuration page and check the settings. (“Printing the Configuration Page” on page 5-7)

4 Install the printer driver. Add a network port during the installation of the printer driver.

- For details on installing the printer driver, refer to *“Installing the Printer Driver” on page 3-1*.

NetWare Server/Client (except NDPS)

1 Connect the network cable. (“Connecting the Network Cable” on page 2-2)

2 Specify the settings that enable the copier to connect to the NetWare server. (“Setting Up the Network Connections” on page 6-12)

3 Set up the NetWare client so that it can print via the NetWare server. (“Setting Up the Network Connections” on page 6-12)

NetWare Server/Client (NDPS)

1 Connect the network cable. (“Connecting the Network Cable” on page 2-2)

2 Specify the IP address, subnet mask, and default gateway settings. (“Assigning an IP Address” on page 6-2)

3 Print the configuration page and check the settings. (“Printing the Configuration Page” on page 5-7)

4 Specify the settings that enable the copier to connect to the NetWare server. (“Setting Up the Network Connections” on page 6-12)

5 Set up the NetWare client so that it can print via the NetWare server. (“Setting Up the Network Connections” on page 6-12)

6.4 Setting Up the Network Connections

6.4.1 Peer-to-Peer Printing

Windows 98/ Windows Me

Important

Before continuing to set up the network settings, check the following:

Check that the computer is set up to use the TCP/IP protocol.

Check that the copier is also set up to use the TCP/IP protocol.

Check that the printer driver has been installed on the computer.

(For details on installing the printer driver, refer to "Installing the Printer Driver" on page 3-1.)

1 Click [Start], point to [Settings], and then click [Printers] to open the "Printers" folder.

2 Right-click the icon for the installed printer driver.

3 Click [Properties] to open the Properties dialog box.

4 Click the "Details" tab, and then click [Add Port].

5 Select **Other**.

6 Select **Peer2Peer** from the list of port types.

7 Click [OK].

8 Enter the copier IP address.

9 Click [OK].

6.4.2 LPR Printing

Windows 2000

Important
Before continuing to set up the network settings, check the following:

Check that the computer is set up to use the TCP/IP protocol.

Check that the copier is also set up to use the TCP/IP protocol.

Check that the printer driver has been installed on the computer.

(For details on installing the printer driver, refer to "Installing the Printer Driver" on page 3-1.)

1 Click [Start], point to [Settings], and then click [Printers] to open the "Printers" folder.

2 Right-click the icon for the installed printer driver.

3 Click [Properties] to open the Properties dialog box.

4 Click the "Ports" tab, and then click [Add Port].

5 In the Printer Ports dialog box, select **Standard TCP/IP Port**, and then click [New Port].

6 When the Add Standard TCP/IP Printer Port Wizard appears, click [Next>].

7 Enter the IP address for the copier into the **Printer Name or IP Address** box, and then click [Next>].

8 Select **Custom**, and then click [Settings].

9 Select **LPR** in the Protocol group box, enter the name of the print queue in the **Queue Name** box (for example, "print"), and then click [OK].

Note
Use half-pitch characters to enter the queue name.

10 Click [Next>].

11 Click [Finish].

6.4.3 Printing to Port 9100

Windows 2000/ Windows XP

...

Important

Before continuing to set up the network settings, check the following:

Check that the computer is set up to use the TCP/IP protocol.

Check that the copier is also set up to use the TCP/IP protocol.

Check that the printer driver has been installed on the computer.

(For details on installing the printer driver, refer to "Installing the Printer Driver" on page 3-1.)

1 When using Windows 2000, click [Start], point to [Settings], and then click [Printers] to open the "Printers" folder.

When using Windows XP, click [Start], point to [Control Panel], then [Printers and Other Hardware] , and then click [See a list of installed printers and fax printers.]

2 Right-click the icon for the installed printer driver.

3 Click [Properties] to open the Properties dialog box.

4 Click the "Ports" tab, and then click [Add Port].

5 In the Printer Ports dialog box, select **Standard TCP/IP Port**, and then click [New Port].

6 When the Add Standard TCP/IP Printer Port Wizard appears, click [Next>].

7 Enter the IP address for the copier into the **Printer Name or IP Address** box, and then click [Next>].

8 Select **Custom**, and then click [Settings].

9 Select **RAW** as the protocol.

10 Enter "9100" for the **Port Number** setting, and then click [OK].

11 Click [Next>].

12 Click [Finish].

6.4.4 IPP Printing

Windows 2000/ Windows XP

Important
Before continuing to set up the network settings, check the following:

Check that the computer is set up to use the TCP/IP protocol.

Check that the copier is also set up to use the TCP/IP protocol.

Setting Up the IPP Print Connection

Set up the IPP Print connection. In order to set up IPP printing, you must start by installing the printer driver. (For details on installing the printer driver, refer to *"Installing the Printer Driver" on page 3-1*.)

1 When using Windows 2000, click [Start], point to [Settings], and then click [Printers] to open the "Printers" folder.

When using Windows XP, click [Start], point to [Control Panel], then [Printers and Other Hardware] , and then click [See a list of installed printers and fax printers.]

2 Start up the Add Printer Wizard, and then click [Next>].

3 Select **Network Printer**, and then click [Next>].

4 Select **Connect to a printer on the internet or on your intranet**.

5 Enter "http://copier IP address/ipp.cgi" in the **URL** box.

- Example: If the copier IP address is 192.168.0.10, enter: http://192.168.0.10/ipp.cgi

6 Click [Next>]. When a confirmation message appears, click [OK].

7 Follow the instructions that appear on the screen to complete the installation.

6.4.5 Connecting a Copier to the NetWare Server

...

Note

For information about configuring settings for printer user privileges, printer alert options, and queue allocation, refer to the NetWare documentation.

Setting Up the Windows Computer for the NetWare Client

1. Click [Start], point to [Settings], click [Printer], and then double-click the “Add Printer” icon.
2. For the printer port, browse the network and specify the name of the queue (or the name of the NDPS printer) that you created.
3. On the printer model list, select the printer driver on the CD-ROM.
4. Follow the instructions provided by the Wizard to complete the procedure.

7 Troubleshooting

If a problem occurs during PC printing, check the following.

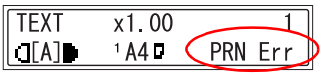
7.1 Correcting Errors

This section describes the errors that can appear during PC printing and what you need to do to correct the situation.

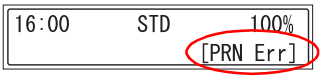
7.1.1 Checking Error Messages

"PRN Err" appears in the lower right corner of the display when a PC print error occurs while the machine is in another mode besides the PC print mode. If this happens, follow the procedure below.

<Copy mode>



<Fax mode>



<Scanner mode>

1 Press the [Printer] key to enter the PC print mode.

2 View the error message on the display.

7.1.2 Main Error Messages

The table below describes the main error messages that may appear during PC print mode operations.

Error Message	Cause	Action
PAPER SIZE ERROR	The paper size specified with the printer driver differs from the size of paper that is loaded.	Load paper of the correct size into the tray.
NO SUITABLE PAPER	"Auto" is selected under "Paper Source" in the printer driver properties, but none of the machine's trays contain paper of the size specified for printing.	Tray1: Change the paper size in the Utility mode, and then load the correct paper into the tray. Tray2: Use a paper cassette loaded with paper of the corresponding size. Bypass Tray: Change the paper that is loaded.
INCORRECT PAPER SIZE	Paper of the size specified in the printer driver is not loaded in the specified paper tray.	
PAPER EMPTY	There is no paper in the specified tray, or the specified tray is not loaded in the machine.	Load paper into the tray or load Tray2 into the paper feed cassette.
MEDIA TYPE ERROR	Media of the type specified in the printer driver is not loaded in the specified paper tray.	Change the media type in the Utility mode, and then load the correct paper into the tray.
MEMORY FULL	The memory is full with stored data.	Press any key, and then turn the machine off, then on again.

Check the following chart if you have problems using the copier as a network printer.

	Check Item		Possible Cause	Solution
1	Has the print job reached the copier?	Yes	A copier error has occurred. (No paper, no toner, etc.)	Check the copier and resolve any errors.
		No	The data has not arrived at the copier.	See check item2.

	Check Item		Possible Cause	Solution
2	Does the computer respond when a ping test is sent to the controller?	Yes	The port number setting is wrong.	Correct the port number setting.
			A computer malfunction has occured.	Restart the computer.
			The driver has not been installed correctly.	Uninstall the driver software, and then reinstall it according to the instructions.
		No	A copier malfunction has occured.	Restart the copier.
			The network cable has become disconnected, or there is a problem with the hub.	Reconnect the cable, and then restart or replace the hub.
			The IP address or subnet mask setting is wrong.	Correct the IP address and subnet mask setting.

7.1.3 Errors and Print Data

What happens to your print data when an error occurs depends on the error type.

"MACHINE TROUBLE" Error

This error indicates a serious operational problem. The machine is unable to receive any data while this error message is on the display.

Temporary Errors

The machine retains current print data in memory whenever any of the easily correctable errors listed below occurs. As soon as the condition causing the error is corrected, the machine automatically resumes printing.

- PAPER JAM
- INCORRECT PAPER SIZE
- PAPER SIZE ERROR
- COVER OPEN
- NO SUITABLE PAPER
- PAPER EMPTY
- MEDIA TYPE ERROR

Note

You can cancel a print job stored in memory due to one of the above errors. See "Canceling a Print Job" on page 5-5 for more information.

8 Specifications

Specifications	FAX2900	FAX3900
Print speed	16 pages/min. (A4L, 300 dpi)	
RAM	Shared with machine.	
Interfaces	USB Version 1.1	USB Version 1.1, Ethernet 10/100Base-T/TX (RJ-45)
Protocol	None	TCP/IP, IPX/SPX
Printer language	GDI	
Fonts	Windows	
Supported Operating systems	Windows XP (SP1 or later), Windows 2000 (SP3 or later), Windows Me, Windows 98	
Web Browser	Internet Explorer 4.0 or later	

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